

From: [Jonathan Carroll](#)
To: [Moore, Gary](#)
Cc: [Steven Wilson](#)
Subject: Re: Tank 16 Patch bottom
Date: Thursday, September 26, 2013 9:16:11 PM

Understood.

From: "Moore, Gary" <Moore.Gary@epa.gov>
To: Jonathan Carroll <JCarroll@lazarusenergy.com>
Cc: Steven Wilson <swilson@lazarusenergy.com>
Sent: Thursday, September 26, 2013 7:26 PM
Subject: RE: Tank 16 Patch bottom

Jonathan:

Based upon my site visit on 9/19/13, I am assuming BBB is doing the following:

- 1. They are continuing the repair of the current tank bottom including the installation of the bearing plates as they were doing when I was there;**
- 2. They are going to put in a liner over the existing bottom;**
- 3. They will have leak detection and cathodic protection;**
- 4. They will use the slotted method to install a new tank bottom over the existing one;**

Now I am not saying that they have to do all these things but I am saying that whatever is done has to be in accordance with industry standard and the appropriate API code.
You must make sure that you keep the records of the actions taken on this tank as at some point it will have to be certified for use.

The samples looked fine to me but I am not sure how they were taken but I am not going to worry about that now. On the other two tanks, you should be prepared to take samples of the cushion sand and they should be 5 - point composite samples comprised of samples from each 1/4 of the tank and one in the center and be cores through the entire sand depth. If there is an issue, you should contact me.

Thanks

Gary Moore
Federal On-Scene Coordinator
U.S. EPA Region 6
214-789-1627 cell
214-665-6609 office
moore.gary@epa.gov

From: Jonathan Carroll <JCarroll@lazarusenergy.com>
Sent: Thursday, September 26, 2013 6:15 PM
To: Moore, Gary
Cc: Steven Wilson



9568278

Subject: Re: Tank 16 Patch bottom

FYI

YES,
BBB took samples. Sorry for the delay, We did not hire TestAmerica, they were hired by BBB.
They were not immediately responsive to us, we had to go through BBB to get the attached report.

BBB will be putting in a double bottom, using the slotted shell method, as demonstrated in their proposal, unless you have some objection(s).

Regards,

Jonathan Carroll

From: "Moore, Gary" <Moore.Gary@epa.gov>
To: Jonathan Carroll <JCarroll@lazarusenergy.com>
Sent: Tuesday, September 24, 2013 12:19 PM
Subject: RE: Tank 16 Patch bottom

Jonathan:

I looked it up and my understanding is that the slotted shell method is used to put in a double bottom. I assume that you are repairing the current bottom of Tank 16 and then putting in a double bottom. I am not exactly sure what you guys are doing.

I also understand that you guys took samples of the sand beneath Tank 16. Do you have any results back as of yet?

Thanks

Gary Moore

Federal On-Scene Coordinator

U.S. EPA Region 6

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From: Jonathan Carroll <JCarroll@lazarusenergy.com>
Sent: Tuesday, September 24, 2013 11:54 AM
To: Moore, Gary
Subject: Re: Tank 16 Patch bottom

No, and No.

From: "Moore, Gary" <Moore.Gary@epa.gov>

To: Jonathan Carroll <JCarroll@lazarusenergy.com>
Sent: Tuesday, September 24, 2013 11:53 AM
Subject: RE: Tank 16 Patch bottom

Jonathan:

Have you decided to replace the entire tank bottom? Did the report show that this was necessary?

Thanks

Gary Moore

Federal On-Scene Coordinator

U.S. EPA Region 6

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From: Jonathan Carroll <JCarroll@lazarusenergy.com>
Sent: Tuesday, September 24, 2013 11:37 AM
To: Moore, Gary
Cc: Steven Wilson
Subject: Fw: Tank 16 Patch bottom

What do you want us to do? see attached.

----- Forwarded Message -----

From: Andrew Martin <ajm@bbbtanksvc.com>
To: jcarroll@lazarusenergy.com
Cc: bobswain@bbbtanksvc.com; 'Jacob Swain' <jacobswain@bbbtanksvc.com>; garythompson@bbbtanksvc.com
Sent: Tuesday, September 24, 2013 7:50 AM
Subject: Tank 16 Patch bottom

Jonathan – Please see attached changes as well as comparisons per your request. I will call and follow up this morning with you accordingly. Thanks a for your time and consideration.

Andrew "Andy" J. Martin
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